CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/545,199 d **ENTERED**

CRF Processing Date: 10/29/2001
Edited by: _____
Verified by: _____ (STIC stal

- [ ] Changed a file from non-ASCII to ASCII

- [ ] Changed the margins in cases where the sequence text was 'wrapped' down to the next line.

- [ ] Edited a format error in the Current Application Data section, specifically: _____

- [ ] Edited the Current Application Data section with the actual current number. The number inputted by the applicant was [ ] the prior application data; or [ ] other _____

- [ ] Added the mandatory heading and subheadings for 'Current Application Data'.

- [ ] Edited the 'Number of Sequences' field. The applicant spelled out a number instead of using an integer.

- [ ] Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____

- [ ] Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____

- [ ] Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____

- [ ] Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

- [ ] Inserted colons after headings/subheadings. Headings edited included: _____

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- [ ] Deleted extra, invalid, headings used by an applicant, specifically: _____

- [ ] Deleted: [ ] non-ASCII 'garbage' at the beginning/end of files; [ ] secretary initials/filename at end of file; [ ] page numbers throughout text; [ ] other invalid text, such as _____

- [ ] Inserted mandatory headings, specifically: _____

- [ ] Corrected an obvious error in the response, specifically: _____

- [ ] Edited identifiers where upper case is used but lower case is required, or vice versa.

- [ ] Corrected an error in the Number of Sequences field, specifically: _____

- [ ] A 'Hard Page Break' code was inserted by the applicant. All occurrences had to be deleted.

- [ ] Deleted ending stop codon in amino acid sequences and adjusted the '(A)Length:' field accordingly (error due to a PatentIn bug). Sequences corrected: _____

- [x] Other: Seq 16 - aligned amino acid nos. _____

```
                    RAW SEQUENCE LISTING          DATE: 10/29/2001
                    PATENT APPLICATION:  US/09/545,199D    TIME: 17:57:09

                    Input Set : A:\PTO.AMC.txt
                    Output Set: N:\CRF3\10292001\I545199D.raw

 3 <110> APPLICANT: Lowery E., David
 4        Fuller E., Troy
 5        Kennedy J., Michael
 7 <120> TITLE OF INVENTION: Anti-Bacterial Vaccine Compositions
 9 <130> FILE REFERENCE: 28341/6227.1
11 <140> CURRENT APPLICATION NUMBER: 09/545,199D
12 <141> CURRENT FILING DATE: 2000-04-06
14 <150> PRIOR APPLICATION NUMBER: 60/153,453
15 <151> PRIOR FILING DATE: 1999-09-10
17 <150> PRIOR APPLICATION NUMBER: 60/128,689
18 <151> PRIOR FILING DATE: 1999-04-09
20 <160> NUMBER OF SEQ ID NOS: 169
22 <170> SOFTWARE: PatentIn Ver. 2.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 1112
26 <212> TYPE: DNA
27 <213> ORGANISM: Pasteurella multocida
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30 <221> NAME/KEY: CDS
31 <222> LOCATION: (210)..(1001)
33 <220> FEATURE:
34 <223> OTHER INFORMATION: atpB
36 <220> FEATURE:
37 <221> NAME/KEY: misc_feature
38 <222> LOCATION: 1099
39 <223> OTHER INFORMATION: n = A or T or G or C
41 <220> FEATURE:
42 <221> NAME/KEY: misc_feature
43 <222> LOCATION: 1104
44 <223> OTHER INFORMATION: n = A or T or G or C
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49 acttgctttt aaactgttca attcaatgca ttttattgca tttttgttg gatattttat 120
51 aacaatagtt ttaaacaata ttcttccatt ttttataagt aagtacttaa atataaagca 180
53 ttttcataaa tatcaataaa ggattagtt atg gca gca gag ctt aca aca gcg  233
54                                    Met Ala Ala Glu Leu Thr Thr Ala
55                                     1               5
59 gga tat att ggg cac cat tta gca ttc ttg aaa aca ggg gat tct ttc  281
60 Gly Tyr Ile Gly His His Leu Ala Phe Leu Lys Thr Gly Asp Ser Phe
61     10              15                  20
64 tgg cat gtt cat tta gat acc ctt cta ttt tca att att tca ggt gca  329
65 Trp His Val His Leu Asp Thr Leu Leu Phe Ser Ile Ile Ser Gly Ala
66  25              30                  35                  40
68 att ttt ctt ttt gtt ttt tca aaa gtt gca aaa aaa gca acg ccg ggt  377
69 Ile Phe Leu Phe Val Phe Ser Lys Val Ala Lys Lys Ala Thr Pro Gly
70              45                  50                  55
72 gtg cct agc aag atg caa tgt ttt gtt gag ata atg gtt gat tgg att  425
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Input Set : A:\PTO.AMC.txt
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 73 Val Pro Ser Lys Met Gln Cys Phe Val Glu Ile Met Val Asp Trp Ile
 74         60                  65                  70
 76 gat ggg atc gta aaa gaa aat ttc cat ggt cct cgt cat gct gtt gga   473
 77 Asp Gly Ile Val Lys Glu Asn Phe His Gly Pro Arg His Ala Val Gly
 78         75                  80                  85
 80 cca tta gca tta act att ttc tgc tgg gta ttc att atg aat gct atc   521
 81 Pro Leu Ala Leu Thr Ile Phe Cys Trp Val Phe Ile Met Asn Ala Ile
 82         90                  95                  100
 84 gat ttg atc cca gta gat ttc cta cct caa tta gcc cat tta ttt ggt   569
 85 Asp Leu Ile Pro Val Asp Phe Leu Pro Gln Leu Ala His Leu Phe Gly
 86 105             110                 115                 120
 88 att gaa tac tta aga gct gtt cca aca gca gat atc agt gga aca tta   617
 89 Ile Glu Tyr Leu Arg Ala Val Pro Thr Ala Asp Ile Ser Gly Thr Leu
 90             125                 130                 135
 92 ggc tta tca att ggt gtc ttc ttc tta att att ttc tat aca atc aaa   665
 93 Gly Leu Ser Ile Gly Val Phe Phe Leu Ile Ile Phe Tyr Thr Ile Lys
 94             140                 145                 150
 96 tca aaa ggt atg agt ggc ttt gtt aaa gaa tat acg ctt cat cct ttt   713
 97 Ser Lys Gly Met Ser Gly Phe Val Lys Glu Tyr Thr Leu His Pro Phe
 98         155                 160                 165
100 aat cat cct ttg tta att ccg gtt aac tta gcg ctt gaa tca gtc aca   761
101 Asn His Pro Leu Leu Ile Pro Val Asn Leu Ala Leu Glu Ser Val Thr
102         170                 175                 180
104 tta tta gca aaa cct gtt tct ttg gcg ttc cgt ctt ttc ggg aat atg   809
105 Leu Leu Ala Lys Pro Val Ser Leu Ala Phe Arg Leu Phe Gly Asn Met
106 185             190                 195                 200
108 tat gca ggt gaa ctt atc ttt att ctt att gca gtg atg tac atg gca   857
109 Tyr Ala Gly Glu Leu Ile Phe Ile Leu Ile Ala Val Met Tyr Met Ala
110             205                 210                 215
112 aat aat ttt gca ctt aat tca atg ggt att ttc atg cat ttg gct tgg   905
113 Asn Asn Phe Ala Leu Asn Ser Met Gly Ile Phe Met His Leu Ala Trp
114             220                 225                 230
117 gct att ttc cat att ctt gtg att acc tta caa gca ttt att ttt atg   953
118 Ala Ile Phe His Ile Leu Val Ile Thr Leu Gln Ala Phe Ile Phe Met
119             235                 240                 245
121 atg ctt aca gtg gtt tat ttg agt atg ggt tat aac aaa gca gaa cac  1001
122 Met Leu Thr Val Val Tyr Leu Ser Met Gly Tyr Asn Lys Ala Glu His
123         250                 255                 260
125 taatttttta taaacaaaac cagaccttgg gtctaaattt caatcttatg gagaacatta 1061
127 tggaacactg taattactac aacaatcatc gcatctgnaa ttnttcttgc t            1112
130 <210> SEQ ID NO: 2
131 <211> LENGTH: 264
132 <212> TYPE: PRT
133 <213> ORGANISM: Pasteurella multocida
135 <400> SEQUENCE: 2
136 Met Ala Ala Glu Leu Thr Thr Ala Gly Tyr Ile Gly His His Leu Ala
137 1               5                   10                  15
139 Phe Leu Lys Thr Gly Asp Ser Phe Trp His Val His Leu Asp Thr Leu
140             20                  25                  30
```

```
142 Leu Phe Ser Ile Ile Ser Gly Ala Ile Phe Leu Phe Val Phe Ser Lys
143         35              40                  45
145 Val Ala Lys Lys Ala Thr Pro Gly Val Pro Ser Lys Met Gln Cys Phe
146         50              55                  60
148 Val Glu Ile Met Val Asp Trp Ile Asp Gly Ile Val Lys Glu Asn Phe
149 65                  70                  75                  80
151 His Gly Pro Arg His Ala Val Gly Pro Leu Ala Leu Thr Ile Phe Cys
152                 85              90                  95
154 Trp Val Phe Ile Met Asn Ala Ile Asp Leu Ile Pro Val Asp Phe Leu
155             100             105                 110
157 Pro Gln Leu Ala His Leu Phe Gly Ile Glu Tyr Leu Arg Ala Val Pro
158         115             120                 125
160 Thr Ala Asp Ile Ser Gly Thr Leu Gly Leu Ser Ile Gly Val Phe Phe
161     130             135                 140
163 Leu Ile Ile Phe Tyr Thr Ile Lys Ser Lys Gly Met Ser Gly Phe Val
164 145             150                 155                 160
166 Lys Glu Tyr Thr Leu His Pro Phe Asn His Pro Leu Leu Ile Pro Val
167             165                 170                 175
169 Asn Leu Ala Leu Glu Ser Val Thr Leu Leu Ala Lys Pro Val Ser Leu
170         180                 185                 190
172 Ala Phe Arg Leu Phe Gly Asn Met Tyr Ala Gly Glu Leu Ile Phe Ile
173         195             200                 205
175 Leu Ile Ala Val Met Tyr Met Ala Asn Asn Phe Ala Leu Asn Ser Met
176     210             215                 220
178 Gly Ile Phe Met His Leu Ala Trp Ala Ile Phe His Ile Leu Val Ile
179 225             230                 235                 240
181 Thr Leu Gln Ala Phe Ile Phe Met Met Leu Thr Val Val Tyr Leu Ser
182             245                 250                 255
184 Met Gly Tyr Asn Lys Ala Glu His
185             260
188 <210> SEQ ID NO: 3
189 <211> LENGTH: 1972
190 <212> TYPE: DNA
191 <213> ORGANISM: Pasteurella multocida
193 <220> FEATURE:
194 <221> NAME/KEY: CDS
195 <222> LOCATION: (364)..(1230)
197 <220> FEATURE:
198 <223> OTHER INFORMATION: atpG
200 <400> SEQUENCE: 3
201 agcgggccat ttggctcagt tcggcttcgg attcttatga tgcacacgta agcaattatc 60
203 acatggtcaa aaagtaactg aattattgaa acaaaaccaa tactctccgt tatctgtagc 120
205 acaacaagca ttagtgttat ttgcagtaga gtttggttac ttagaagaag tggacttaga 180
207 tcgtattggt tcatttgaat cagcactttt agagtatgct aaccataact atgctgattt 240
209 tatgcgtgag ttaacccaat ctggcaatta caatgatgaa attaaagagt cattaaaagg 300
211 cattttggat agcttcaaag caaacagtgc gtggtaagtt aacactttaa atggagagac 360
213 aaa atg gca ggt gct aaa gag ata aga acc aaa atc gcg agt gta aaa    408
214     Met Ala Gly Ala Lys Glu Ile Arg Thr Lys Ile Ala Ser Val Lys
215      1               5                   10                  15
```

RAW SEQUENCE LISTING   DATE: 10/29/2001
PATENT APPLICATION: US/09/545,199D   TIME: 17:57:09

Input Set : A:\PTO.AMC.txt
Output Set: N:\CRF3\10292001\I545199D.raw

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217 agt aca caa aaa att act aaa gcg atg gaa atg gtt gct gcc tcg aaa    456
218 Ser Thr Gln Lys Ile Thr Lys Ala Met Glu Met Val Ala Ala Ser Lys
219                     20              25                  30
221 atg cgt aaa acg caa gaa cgc atg tct tct tca cgc cct tat tca gaa    504
222 Met Arg Lys Thr Gln Glu Arg Met Ser Ser Ser Arg Pro Tyr Ser Glu
223             35                  40                  45
225 aca ata cgt aac gtg att agc cac gtt tcc aaa gca acg att ggt tac    552
226 Thr Ile Arg Asn Val Ile Ser His Val Ser Lys Ala Thr Ile Gly Tyr
227         50                  55                  60
229 aag cat cca ttt tta gtg gat cgc gaa gta aaa aaa gtg ggc atg att    600
230 Lys His Pro Phe Leu Val Asp Arg Glu Val Lys Lys Val Gly Met Ile
231     65                  70                  75
233 gtt gtg tcc aca gat cgt ggt ctt tgt ggt ggc tta aac gtg aac ttg    648
234 Val Val Ser Thr Asp Arg Gly Leu Cys Gly Gly Leu Asn Val Asn Leu
235 80                  85                  90                  95
237 ttt aaa act gta tta aat gaa atg aaa gaa tgg aaa gaa aaa gat gtt    696
238 Phe Lys Thr Val Leu Asn Glu Met Lys Glu Trp Lys Glu Lys Asp Val
239                 100                 105                 110
241 tcc gtt caa ttg agt tta atc ggt tct aaa tct atc aac ttt ttc caa    744
242 Ser Val Gln Leu Ser Leu Ile Gly Ser Lys Ser Ile Asn Phe Phe Gln
243             115                 120                 125
245 tct ttg gga att aaa att tta acc caa gat tca ggt att ggt gat act    792
246 Ser Leu Gly Ile Lys Ile Leu Thr Gln Asp Ser Gly Ile Gly Asp Thr
247         130                 135                 140
249 ccc tct gtt gag cag tta att ggt tca gtc aat tct atg att gat gct    840
250 Pro Ser Val Glu Gln Leu Ile Gly Ser Val Asn Ser Met Ile Asp Ala
251     145                 150                 155
253 tat aaa aaa ggg gaa gta gat gtt gtg tat tta gtt tat aac aaa ttt    888
254 Tyr Lys Lys Gly Glu Val Asp Val Val Tyr Leu Val Tyr Asn Lys Phe
255 160                 165                 170                 175
257 att aac acg atg tcg caa aag cca gta ttg gaa aaa tta att cca tta    936
258 Ile Asn Thr Met Ser Gln Lys Pro Val Leu Glu Lys Leu Ile Pro Leu
259                 180                 185                 190
261 cca gaa tta gat aat gat gaa tta ggc gaa aga aaa caa gtt tgg gat    984
262 Pro Glu Leu Asp Asn Asp Glu Leu Gly Glu Arg Lys Gln Val Trp Asp
263             195                 200                 205
265 tat att tac gaa cct gat gcg aaa gta tta tta gat aat tta ttg gtt   1032
266 Tyr Ile Tyr Glu Pro Asp Ala Lys Val Leu Leu Asp Asn Leu Leu Val
267         210                 215                 220
269 cgt tat tta gaa tct cag gtt tat caa gca gca gtt gaa aac ctt gct   1080
270 Arg Tyr Leu Glu Ser Gln Val Tyr Gln Ala Ala Val Glu Asn Leu Ala
271     225                 230                 235
273 tct gag caa gcc gct cga atg gtc gcc atg aaa gca gca aca gat aac   1128
274 Ser Glu Gln Ala Ala Arg Met Val Ala Met Lys Ala Ala Thr Asp Asn
275 240                 245                 250                 255
277 gca ggt aac tta att aat gag tta cag tta gtc tat aac aaa gct cgt   1176
278 Ala Gly Asn Leu Ile Asn Glu Leu Gln Leu Val Tyr Asn Lys Ala Arg
279             260                 265                 270
281 caa gca agt att aca aat gaa tta aat gaa att gtt gcc ggt gca gca   1224
```

RAW SEQUENCE LISTING   DATE: 10/29/2001
PATENT APPLICATION: US/09/545,199D   TIME: 17:57:09

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF3\10292001\I545199D.raw**

```
282 Gln Ala Ser Ile Thr Asn Glu Leu Asn Glu Ile Val Ala Gly Ala Ala
283           275               280               285
285 gca att taacaaatag aggatcggta atggcaactg gaaaaattgt acaaatcatc  1280
286 Ala Ile
288 ggtgcggtta ttgacgttga attcccacaa gatgcagtac caaaagtata tgatgcctta 1340
290 aatgttgaaa caggtttagt acttgaagtt caacaacaat taggtggtgg tgtagttcgc 1400
292 tgtatcgcaa tgggatcatc tgatggatta aaacgcggtt taagcgtaac aaatacgaat 1460
294 aacccaattt ctgttccagt gggaacgaaa acattgggtc gtatcatgaa cgtattgggt 1520
296 gaaccaatcg atgagcaagg tgaaatcggt gcagaagaga attggtctat tcaccgtgcg 1580
298 ccaccaagtt atgaagaaca atctaacagt actgaacttt tagaaacggg aattaaagtt 1640
300 atcgacttag tttgtccgtt tgcgaaaggg ggtaaagtag gtttattcgg tggtgcgggt 1700
302 gtcggtaaaa ccgtcaatat gatggaatta atccgtaaca tcgcaattga gcactcaggt 1760
304 tactctgtct ttgcggggggt aggtgagcgt acgcgtgaag gtaacgactt ctatcatgag 1820
306 atgaaagact ctaacgtatt agataaagtg tctcttgttt atggtcaaat gaacgagcca 1880
308 ccaggtaacc gtttacgtgt ggcattaaca ggcttaacta tggcggaaaa attccgtgat 1940
310 gaaggtcgtg atgtcttatt cttcgttgat aa                               1972
313 <210> SEQ ID NO: 4
314 <211> LENGTH: 289
315 <212> TYPE: PRT
316 <213> ORGANISM: Pasteurella multocida
318 <400> SEQUENCE: 4
319 Met Ala Gly Ala Lys Glu Ile Arg Thr Lys Ile Ala Ser Val Lys Ser
320   1               5               10              15
322 Thr Gln Lys Ile Thr Lys Ala Met Glu Met Val Ala Ala Ser Lys Met
323           20              25              30
325 Arg Lys Thr Gln Glu Arg Met Ser Ser Ser Arg Pro Tyr Ser Glu Thr
326           35              40              45
328 Ile Arg Asn Val Ile Ser His Val Ser Lys Ala Thr Ile Gly Tyr Lys
329     50              55              60
331 His Pro Phe Leu Val Asp Arg Glu Val Lys Lys Val Gly Met Ile Val
332  65              70              75              80
334 Val Ser Thr Asp Arg Gly Leu Cys Gly Gly Leu Asn Val Asn Leu Phe
335               85              90              95
337 Lys Thr Val Leu Asn Glu Met Lys Glu Trp Lys Glu Lys Asp Val Ser
338           100             105             110
340 Val Gln Leu Ser Leu Ile Gly Ser Lys Ser Ile Asn Phe Phe Gln Ser
341           115             120             125
343 Leu Gly Ile Lys Ile Leu Thr Gln Asp Ser Gly Ile Gly Asp Thr Pro
344     130             135             140
346 Ser Val Glu Gln Leu Ile Gly Ser Val Asn Ser Met Ile Asp Ala Tyr
347 145             150             155             160
349 Lys Lys Gly Glu Val Asp Val Val Tyr Leu Val Tyr Asn Lys Phe Ile
350           165             170             175
352 Asn Thr Met Ser Gln Lys Pro Val Leu Glu Lys Leu Ile Pro Leu Pro
353           180             185             190
355 Glu Leu Asp Asn Asp Glu Leu Gly Glu Arg Lys Gln Val Trp Asp Tyr
356           195             200             205
358 Ile Tyr Glu Pro Asp Ala Lys Val Leu Leu Asp Asn Leu Leu Val Arg
359     210             215             220
```

Use of n and/or Xaa has been detected in the Sequence Listing.
Review the Sequence Listing to insure a corresponding
explanation is presented in the <220> to <223> fields of
each sequence using n or Xaa.

VERIFICATION SUMMARY   DATE: 10/29/2001
PATENT APPLICATION: **US/09/545,199D**   TIME: 17:57:10

Input Set : **A:\PTO.AMC.txt**
Output Set: **N:\CRF3\10292001\I545199D.raw**

```
L:127  M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:3839 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:3840 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:3843 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:3844 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:3847 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:3848 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:3979 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:3982 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:3985 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:5414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:5415 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:5426 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:5427 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:5442 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:5450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:5524 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:5527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:5533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:5536 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:5610 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:5611 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:5626 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:5627 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:5659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:5661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:5687 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:5689 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:5726 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:5738 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:5856 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:6788 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:9357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:11241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90
L:11243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90
L:11976 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:102
L:11977 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:102
L:12304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103
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